



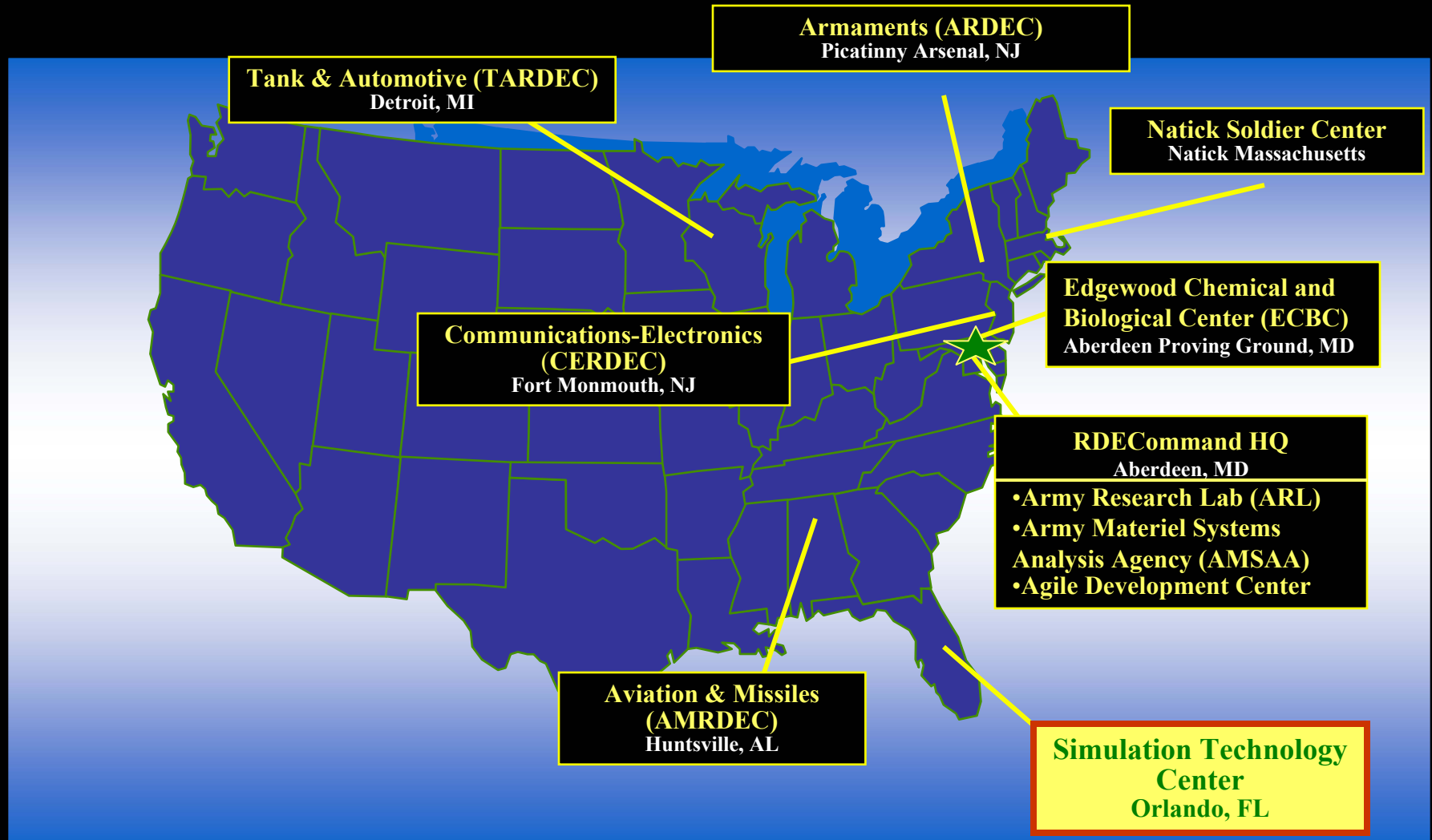
**RDECOM  
Simulation  
Technology  
Center  
(STC)**

APBI  
Mark Stoklosa  
11 Jun 03

# Agenda

- Simulation Technology Center (STC) Overview
- Science & Technology Objectives (STOs)
- Broad Agency Announcement (BAA)
- Small Business Innovative Research (SBIR)

# Simulation Technology Center is One of Ten Organizations in the RDE Command



## Research Development & Engineering Command

# Vision & Objectives of the Simulation Technology Center

- To support the RDE Command through research, development and transition of emerging simulation technologies for the soldier.
- Develop effective mechanisms for planning and executing the transition of programs from science and technology to the soldier.
  - Make Complex Technology Soldier Friendly
  - Transition, transition, transition
  - Put the Soldier's First



**RDECOM  
Simulation  
Technology  
Center  
(STC)**



**Army Research  
Institute  
(ARI)**



**Program Executive  
Office Simulation  
Training  
& Instrumentation  
(PEO STRI)**

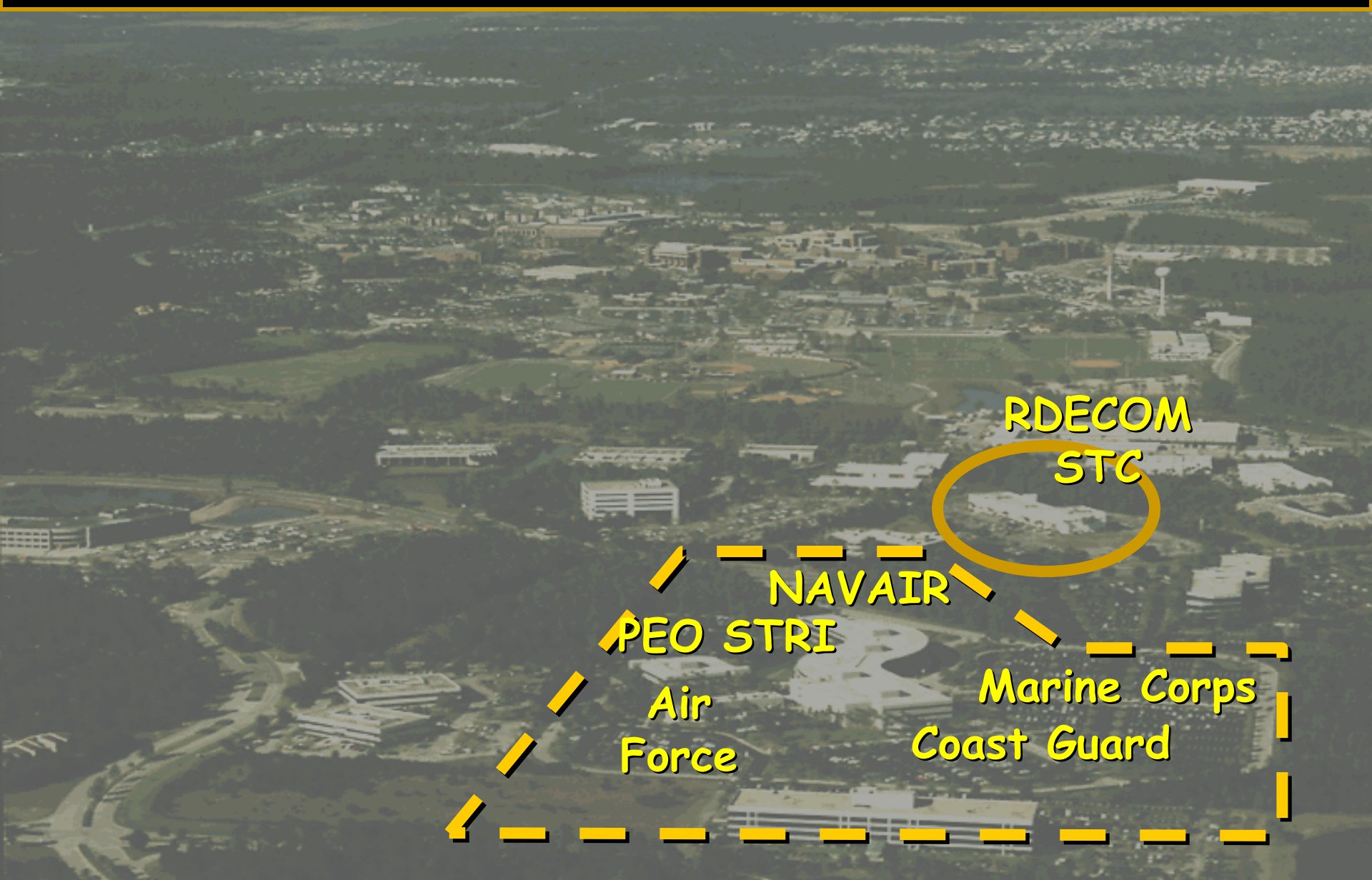


**Army Research  
Laboratory  
Human Research &  
Engineering  
Directorate (HRED)**



**University Of  
Central Florida (UCF)  
& Institute For  
Simulation & Training  
(IST)**

# Central Florida Research Park



RDECOM  
STC

NAVAIR

PEO STRI

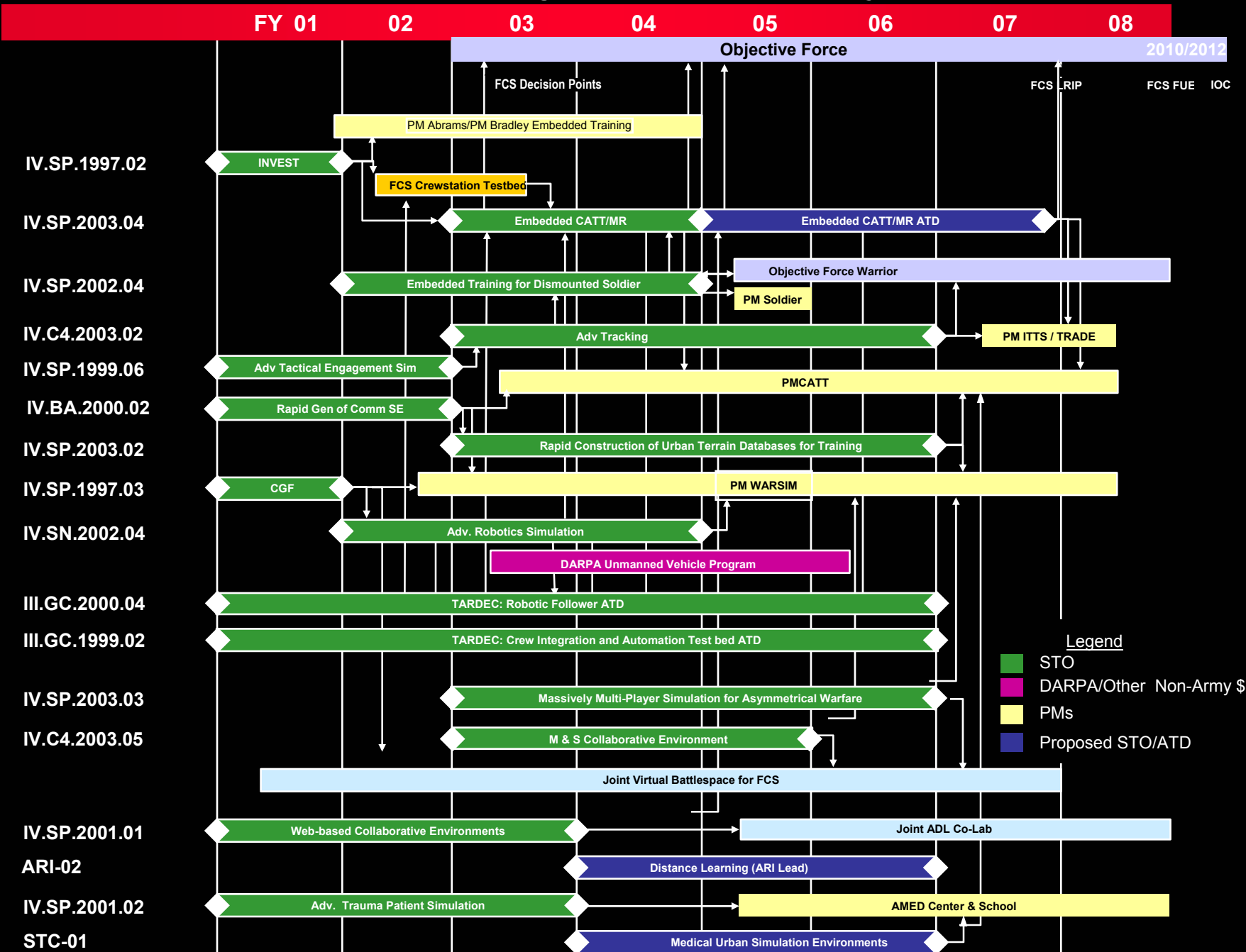
Air  
Force

Marine Corps  
Coast Guard

# Science & Technology Objectives

- **Current STOs:**
  - IV.SN.2002.04 Adv Robotics Simulation (Composable Behavior Technologies)
  - IV.SP.2002.04 Embedded Training for Dismounted Soldiers
  - IV.SP.2003.02 Rapid Construction of Urban Terrain Databases for Training
  - IV.SP.2003.03 Massively Multi-Player Simulations for Asymmetric Warfare
  - IV.SP.2003.04 Embedded Combined Arms Team Training and Mission Rehearsal
  - IV.C4.2003.02 Adv POS.NAV & Tracking for Objective Force
- **New STOs:** STC-01 Advanced Medical Training Technologies
- **Completed STOs (includes STOs in last year of execution)**
  - IV.SP.2001.01 Training Tools for Web-based Collaborative Environments
  - IV.SP.2001.02 Advanced Trauma Patient Simulation
  - IV.SP.1999.06 Advanced Tactical Engagement Simulation
  - IV.SP.1997.03 Computer Generated Forces
  - IV.SP.1997.02 Inter-Vehicle Embedded Simulation Technologies

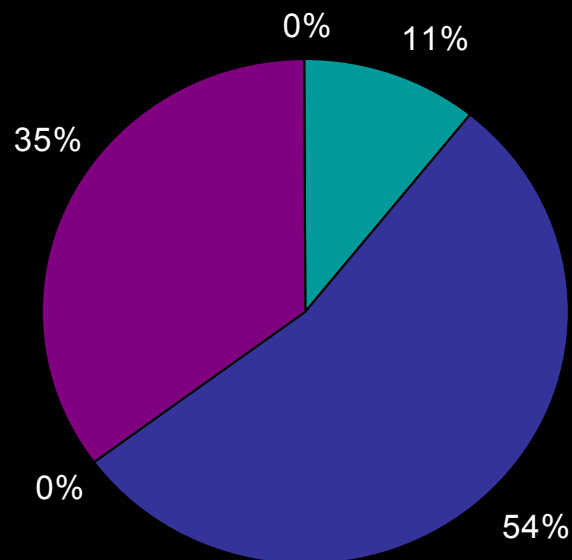
# RDECOM-STC Commodity Roadmap for Objective Force





# S&T Breakout

**FY03 S&T Funding by Budget Category**



- 6.1
- 6.2 Non-STO
- 6.2 STO
- 6.3 non-STO
- 6.3 STO

Total FY03 Mission Program  
\$21.063M RDTE\*

\* Does not include ICT, SBIR or any  
special interest efforts

# Broad Agency Announcement (BAA)

**Objective** - Identify and fund innovative projects proposed by industry in response to R&D topics generated by the RDECOM-STC, PEO STRI and ARI. All of these efforts address Army Science and Technology Master Plan (ASTMP) objectives and provide a means to leverage the efforts of high technology companies.

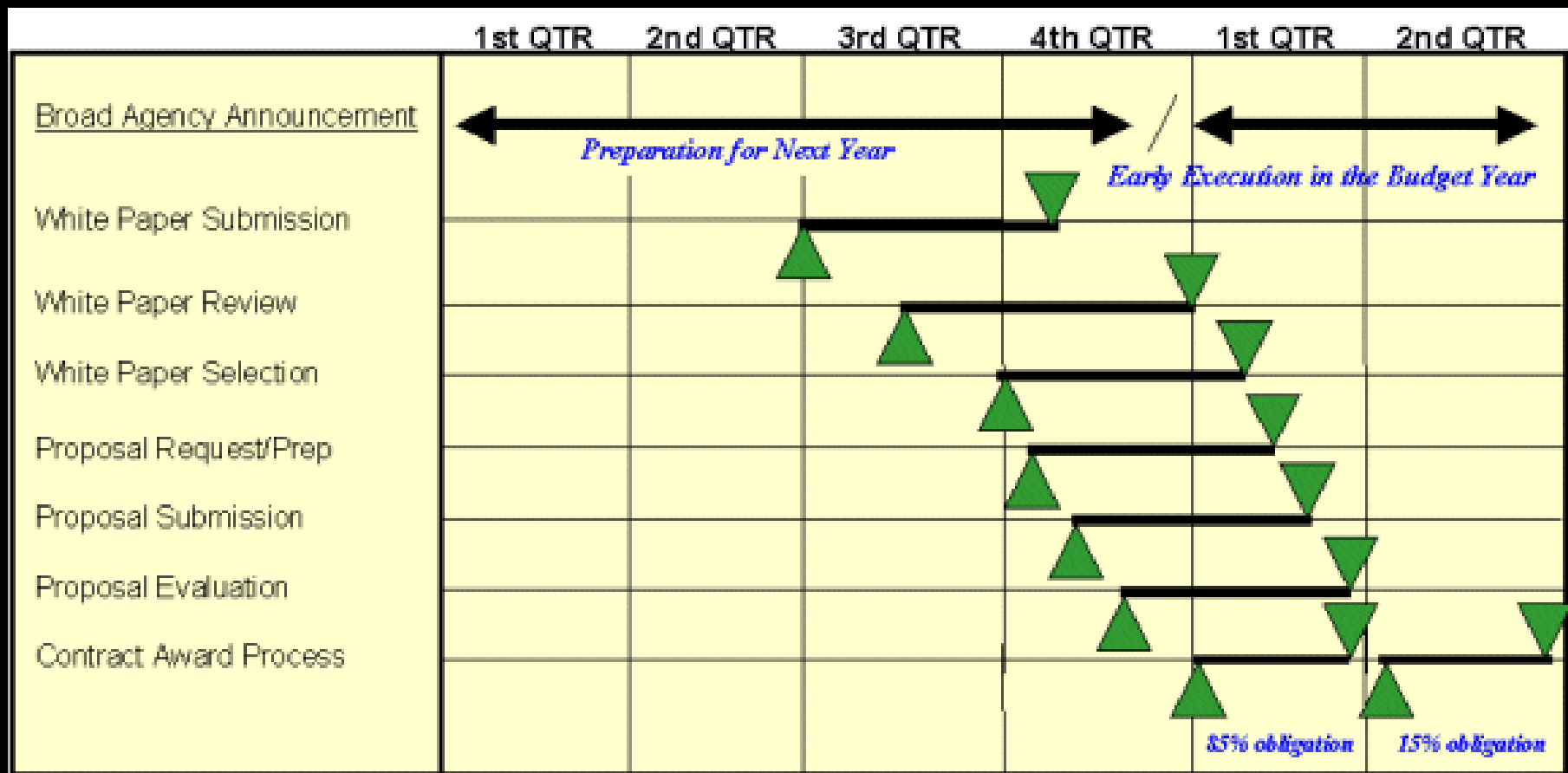
# Current Research Areas

- Battlefield Simulation Research
- Training Device And Simulator Research
- Instrumentation, Targets And Threat Simulators Research
- Test And Evaluation Research
- Wargaming Research
- Training Systems Research
- Collision Avoidance Demonstration

# BAA N61339-01-R-0023 Status

- Issue Date: 01 March 2001
- Expiration Date: 01 March 2006
- Currently going through yearly topic update to be published in mid - June 03
- Changes announced in FedBizOpps
  - <http://fedbizopps.gov/>
- Located on PEO STRI web page
  - <http://www.peostri.army.mil/BAA>

# BAA Schedule



# BAA Standard Operating Procedure

- Telephone call to the technical point of contact listed at the end of topic
- Informal 2 - 4 page white paper with ROM included
- Proposal requested by Contracting Officer upon favorable evaluation of white paper
- Contract award for selected proposals\*

\* Funding of research will be determined by funding constraints and research priorities set during each budget cycle.

# Army SBIR Program

- Congressionally mandated program established in 1982, reauthorized until 2008.
- One Annual Solicitation (03.2 Solicitation: 1 Jul - 13 Aug 03)
- Aligns topics with Army Science and Technology Master Plan and user needs (Objective Force/Future Combat Systems)
- Addresses the Phase I/Phase II funding gap issue
- One Phase II Process (Invited and Fast Track)
- Complies with OSD requirements to accelerate contract awards (Phase I - 4 Months, Phase II - 6 Months)
- Includes performance incentives - Phase II Quality Awards
- Reflects Logistics Integration Agency & TRADOC Interests
- Chemical Biological Defense (CBD) Program

# Army SBIR Process

## Phase I



**Feasibility Study -  
\$70K, 6 Months**

**\$50K Option  
(Gap Funding)**

**~One in Ten Win**

## Phase II



**Prototype Development  
\$730K, 2 Years**

**~ One in Two Win**

## Phase III

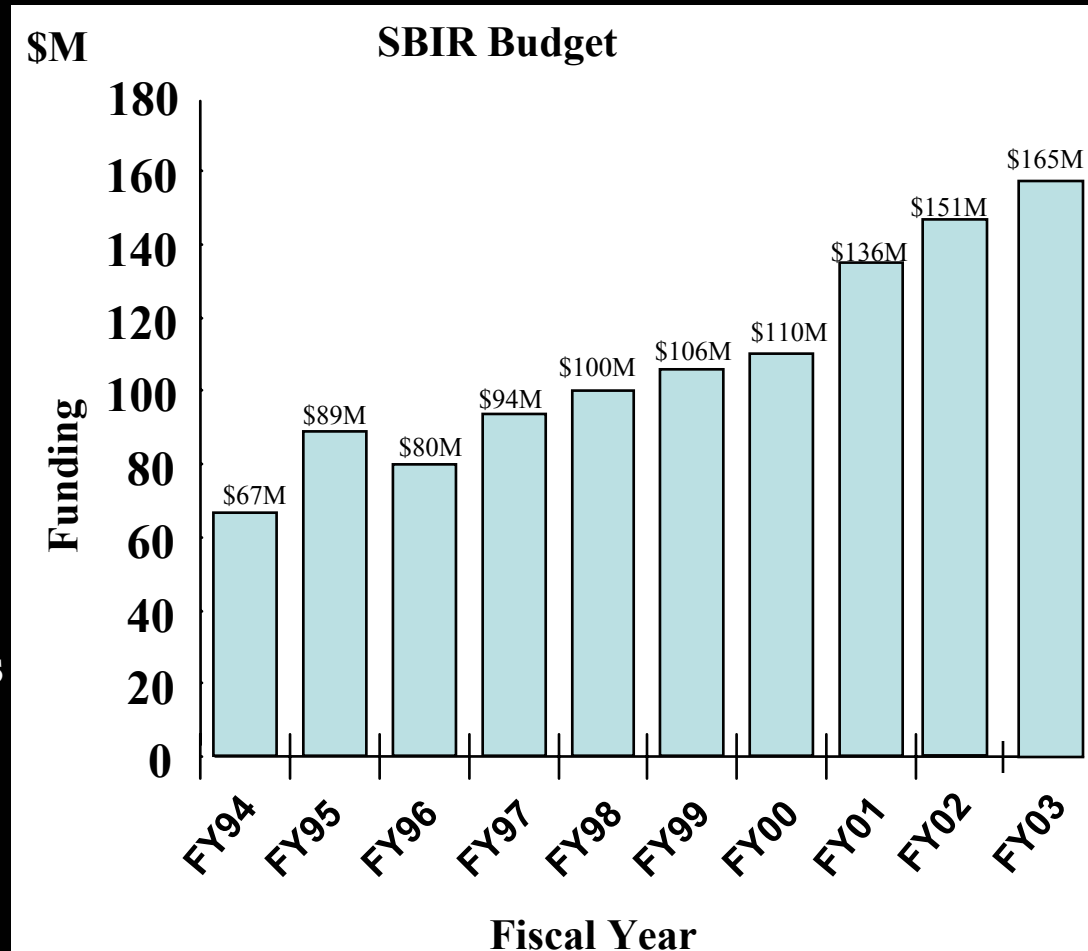
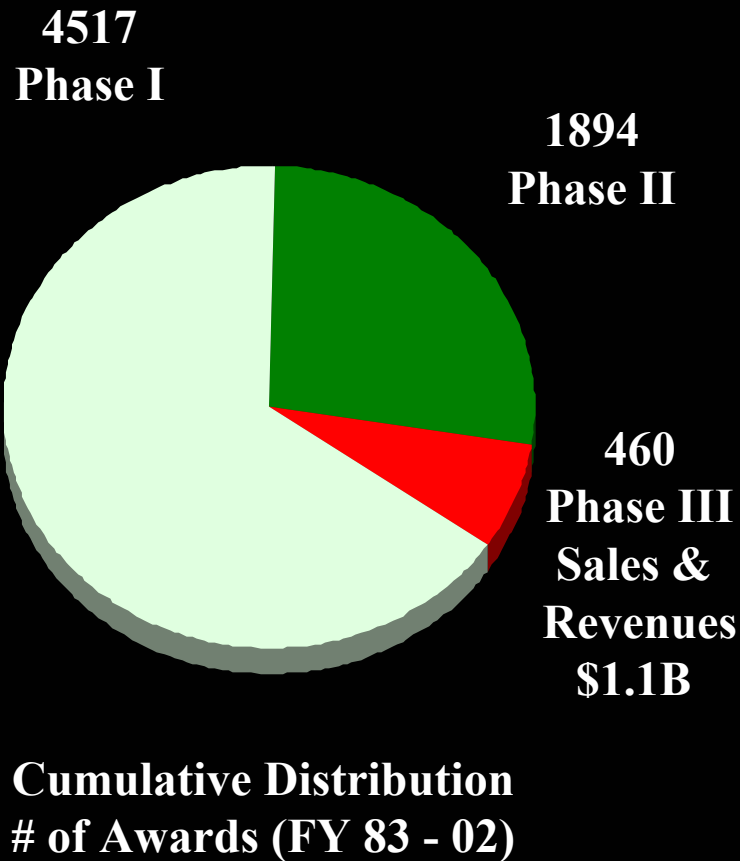


**Commercialization  
No SBIR Funds...**

Army SBIR...Pursues innovations through aggressive contracting with small businesses.



# Army SBIR Funding



SBIR Budget is 2.5% of Army Extramural R&D

# Army SBIR Statistics

	FY99	FY00	FY01	FY02
<b>Funding</b>	<b>\$106M</b>	<b>\$110M</b>	<b>\$136M</b>	<b>\$151M</b>
<b>Number of Topics</b>	<b>169</b>	<b>167</b>	<b>180</b>	<b>252</b>
<b>Phase I Proposals</b>	<b>1872</b>	<b>1603</b>	<b>2055</b>	<b>3139</b>
<b>Phase I Awards</b>	<b>198</b>	<b>249</b>	<b>317</b>	<b>354</b>
<b>Phase II Awards</b>	<b>108</b>	<b>139</b>	<b>151</b>	<b>180</b>

# Key Dates for 03.2 Solicitation

243 SBIR Topics Listed

Pre-Solicitation Opens (Internet)	1 May 03
-----------------------------------	----------

Solicitation Opens	1 Jul 03
--------------------	----------

Phase I Proposals Due (25 Pages)	13 Aug 03
----------------------------------	-----------

Award Notification	mid - Nov 03
--------------------	--------------

Contract Award	mid - Dec 03
----------------	--------------



# Current SBIR Topics

- A03-200 Advanced Virtual Environment Haptic Simulation
- A03-201 Automated Tool to Model Software for System Performance Predictions
- A03-202 High-Precision, Expendable, Six Degree-of-Freedom Sensor
- A03-203 Training Performance Assessments for Mixed Initiative (Manned/Unmanned) Team
- A03-204 Adapting Intelligent Tutoring System for Assessing Collaborative Skills
- A03-205 Software Tools for Modeling Urban Details
- A03-206 Common Aggregation Framework for Simulation Scalability
- A03-207 Multi-Resolution Terrain Models Representation

# SBIR Information

## HOME PAGES:

DoD - <http://www.dodsbir.net> or [www.acq.osd.mil/sadbu/sbir](http://www.acq.osd.mil/sadbu/sbir)

Army Research Office - <http://www.aro.army.mil/arowash/rt/>

## MAILING LIST FOR SOLICITATION:

DoD SBIR Help Desk - (866) 724-7457

E-Mail: [sbirhelp@brtrc.com](mailto:sbirhelp@brtrc.com)

## HOME PAGES:

Pre-Solicitation - <http://www.dtic.mil/dtic/sbir>

SITIS - <http://dtica.dtic.mil/sbir/>

## UNSOLICITED PROPOSALS:

Army Materiel Command, Small and Disadvantaged Business  
Office, Don Monaco, Director, 703-617-8185

# Questions